

Vishal Rathod Nenavath

Fairfax, VA / vishalrathodnenavath366@gmail.com / +1 703-298-3056 / LinkedIn

Professional Summary

Motivated and detail-oriented Full Stack Developer with over 2 years of professional experience in designing and developing scalable web applications. Proficient in full-stack technologies including Java, Python, React, Node.js, and SQL with strong problem-solving skills and a solid background in cloud platforms like AWS. Experienced in Agile methodologies, CI/CD pipelines, and automation tools.

Technologies

Programming Languages: Python, Java, JavaScript, TypeScript, C, C++, Ruby.

Frontend Development: React, Next.js, Angular, HTML, CSS/SCSS, JavaScript, TypeScript.

Backend Development: Node.js, .NET Core, Java, Python, REST APIs, GraphQL.

Cloud Platforms: AWS (EC2, S3, Lambda, RDS), Google Cloud, Azure.

Databases: SQL (MySQL, PostgreSQL), NoSQL (MongoDB, DynamoDB, Redis).

Tools & Platform: Git, Jenkins, Docker, Azure DevOps

Other Skills: Object-Oriented Design, Agile Methodologies, Test-Driven Development (TDD).

Education

George Mason University, MS in Computer Science

Jan 2023 – Dec 2024

- **Coursework:** Algorithms, Problem Solving, NLP, ML, DBMS, Software architecture.

B V Raju Institute Of Technology, B. Tech in Computer Science

July 2018 – May 2022

- **Coursework:** Data Structures, Database Management, Computer Architecture.

Experience

Research Assistant, George Mason University | Fairfax, VA

May 2023 – Dec 2024

- Developed software solutions in Python and Java to automate data processing tasks, reducing manual effort by 40%.
- Built a web-based visualization tool using React, improving accessibility of research findings for non-technical stakeholders.
- Designed scalable solutions for processing high-volume datasets within a service-oriented architecture.
- Documented technical methodologies and presented outcomes to stakeholders, ensuring alignment with project goals.
- Integrated APIs for data aggregation from multiple sources, enhancing data analysis efficiency.
- Collaborated with cross-functional teams to identify system bottlenecks and implement performance optimization strategies.

Full Stack Developer, State Street – Hyderabad, India

Aug 2021 – Nov 2022

- Developed and maintained scalable web applications using Java (Spring Boot) and React, improving system efficiency by 20%.
- Designed and implemented RESTful APIs to enable seamless communication between front-end and back-end systems.
- Developed a CI/CD pipeline using Jenkins and Docker, reducing deployment time by 40%.
- Conducted code reviews and implemented Agile practices, ensuring high-quality deliverables.
- Optimized database queries, reducing API response times by 35% through efficient query structuring.
- Migrated legacy applications to modern tech stacks, improving system maintainability and scalability.
- Implemented comprehensive unit and integration testing strategies, increasing code coverage and reducing production bugs.

Projects

Real-Time Messaging System:

- **Technologies:** Java (Spring Boot), React, WebSocket, MongoDB.
- Developed a real-time messaging system with WebSocket-based communication, reducing latency by 25%.
- Integrated JWT for secure user authentication and authorization.
- Enhanced database performance by optimizing MongoDB indexing and queries.
- Implemented a user-friendly front-end using React and ensured seamless navigation.

AI-Powered Personal Assistant:

- **Technologies:** Python (Flask), React, Google Speech-to-Text API, PostgreSQL.
- Designed and developed an AI-powered assistant capable of real-time speech-to-text transcription.
- Integrated REST APIs to fetch and process data dynamically from third-party services.
- Implemented asynchronous task handling to improve system performance.

Online Learning Platform:

- **Technologies:** Java (Spring Boot), Angular, MySQL, AWS (EC2, S3).
- Built a scalable online learning management system with features like video streaming, quizzes, and course management.
- Integrated AWS services for secure file storage and content delivery.
- Developed RESTful APIs to manage user roles, course content, and performance tracking.

Certifications

AWS - Associate Solution Architect

Nov 2024

Verification ID: d097d8589121491b937004d187995043

LEADERSHIP AND ADDITIONAL ACTIVITIES:

- Event Manager for Fun Department in Anokha (Technical fest) 2019,2020,2021 and Member of NSS (National Service Scheme).
- Conducted and Participated events statewide and national wide for the betterment of rural Society.